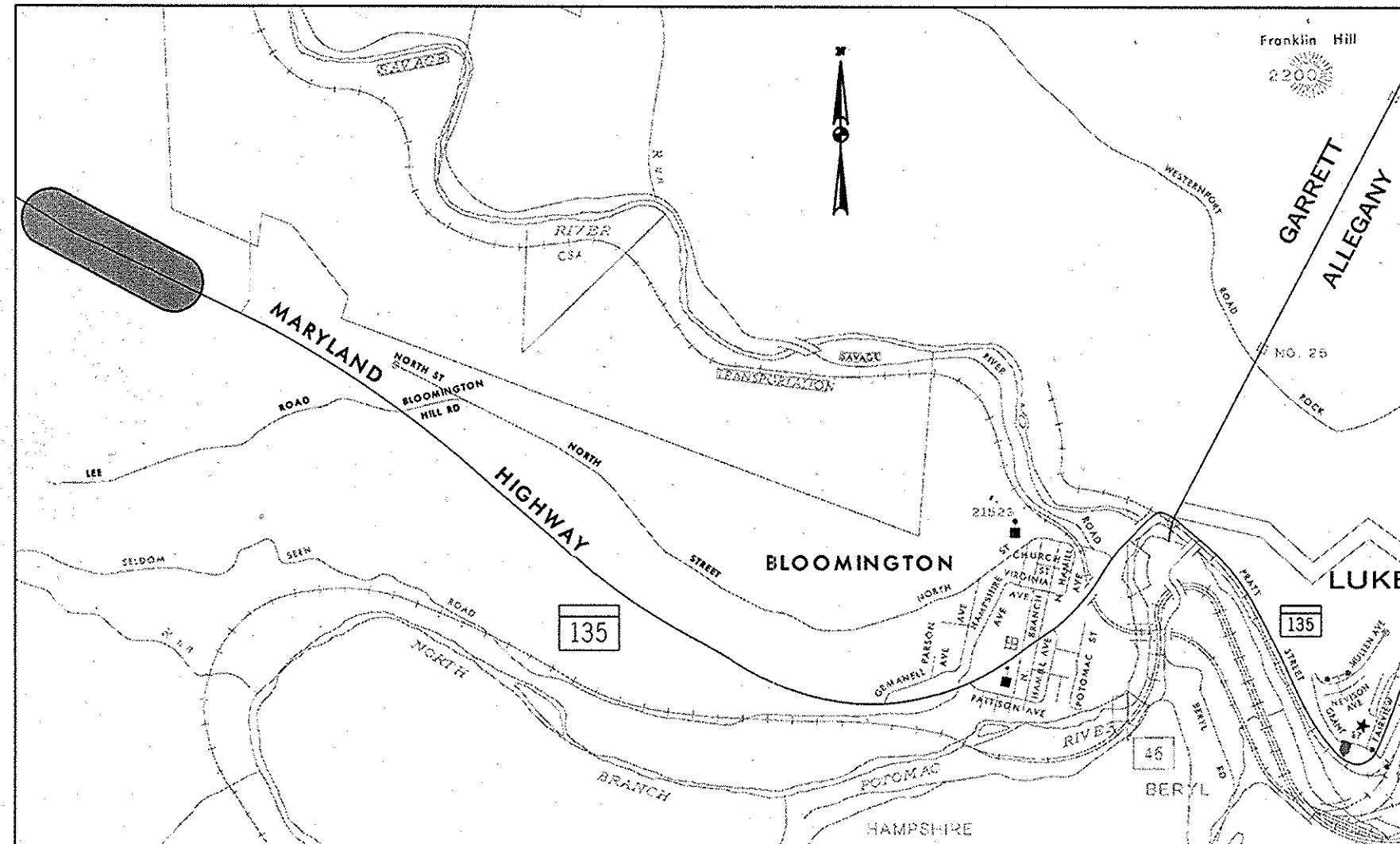


PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE INSTALLATION OF AN AUTOMATIC RUNAWAY TRUCK DETECTION WARNING SYSTEM ALONG EB MD 135 BY MEANS OF A VIDEO DETECTION CAMERA MOUNTED ON A MAST ARM POLE. IN ADDITION, HAZARD IDENTIFICATION BEACONS AND A WARNING SIGN WILL BE INSTALLED ON A CANTILEVER SIGN STRUCTURE. A SIGN LIGHTING SYSTEM WILL ALSO BE INSTALLED FOR THIS SIGN. MD 135 IS LOCATED IN GARRETT COUNTY AND IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

THE SIGNING PORTION OF THIS PROJECT WILL BE CARRIED OUT UNDER CONTRACT #AT7165185 AND THE SIGNAL PORTION WILL BE CARRIED OUT UNDER CONTRACT #AT7835185.

PROJECT LOCATION



NOT TO SCALE

INTERSECTION OPERATION

THE HAZARD IDENTIFICATION BEACONS WILL OPERATE IN A YELLOW FLASHING MODE WHEN TRUCKS ARE DETECTED TRAVELING OVER 30 MILES PER HOUR. SIGNAL HEADS 1 AND 4 WILL ALTERNATE WITH HEADS 2 AND 3.

CONTROLLER REQUIREMENTS

INSTALL A FULL-TRAFFIC-ACTUATED TRAFFIC CONTROLLER, VIDEO DETECTION INTERFACE EQUIPMENT, INTERSECTION MONITOR WITH BATTERY BACK-UP FOR PHONE DROP AND ASSOCIATED HARNESS HOUSED IN A NEMA SIZE "5" POLE MOUNTED CABINET.

SPECIAL NOTE

UPON COMPLETION OF THIS PROJECT THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF SHA AT (410)787-7631 TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR IS TO PROVIDE MR. SNYDER WITH THE NEAREST STREET ADDRESS, ZIP CODE, AND PHONE NUMBER.

CONTACT PERSONS FOR DISTRICT # 6 ARE AS FOLLOWS:

MR. GEORGE H. SMALL
ASSISTANT DISTRICT
ENGINEER-TRAFFIC
PHONE: (301) 729-8444

MR. ANTHONY CRAWFORD
ASSISTANT DISTRICT
ENGINEER-MAINTENANCE
PHONE: (301) 729-8457

MR. ROBERT ROWAN
UTILITY ENGINEER
PHONE: (301) 729-84579

CONTACT PERSONS FOR OOTS ARE AS FOLLOWS:

MR. RICHARD L. DAFF, SR.
CHIEF, TRAFFIC OPERATIONS
DIVISION
PHONE: (410) 787-7630

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF
TRAFFIC OPERATIONS
410-787-7630

MR. ED RODENHIZER
CHIEF, SIGNAL OPERATIONS
410-787-7650

MR. EUGENE BAILEY
CHIEF, SIGN OPERATIONS
410-787-7676

THE POWER COMPANY IS:

ALLEGHENY POWER
P.O. BOX BOX 1392
FAIRMONT, WV 26554
(304) 367-3370

CONTRACT #AT7835185 (SIGNAL)

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA.

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
9000	NEMA SIZE '5' CONTROLLER & CABINET - POLE MOUNT	EA	1
9000	FURNISH MAST ARM POLE WITH 50' MAST ARM	EA	1
9086	VIDEO INTERFACE EQUIPMENT: 1-4 CAMERAS	EA	1

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FUNISHED AND/OR INSTALLED BY THE CONTRACTOR.

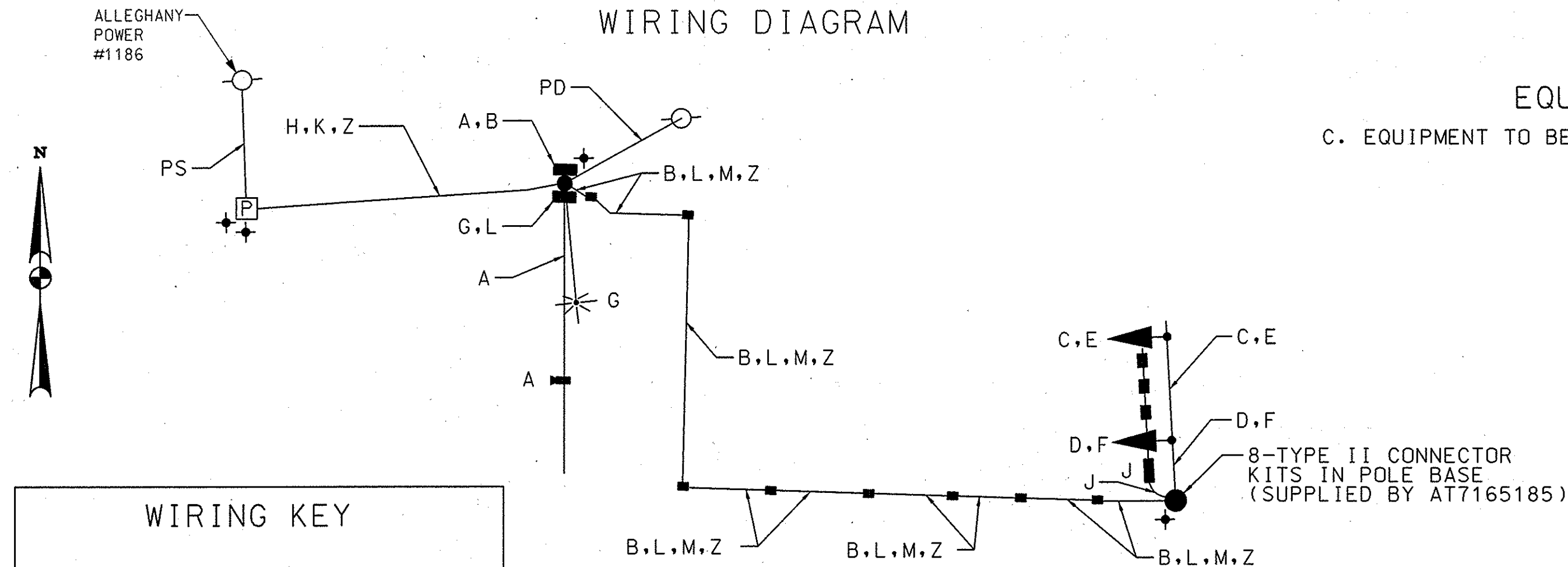
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
1001	MAINTENANCE OF TRAFFIC	EA	2
2002	TEST PIT EXCAVATION	CY	1
6002	F&I 4" CONCRETE SIDEWALK	SF	35
8007	F&I 20' LIGHTING ARM ON SIGNAL POLE WITH 250W HPS LAMP & LUMINAIRE	EA	1
8013	INSTALL MAST ARM POLE WITH 50' MAST ARM	EA	1
8026	F&I VIDEO DETECTION CAMERA AND CABLE UP TO 500'	EA	1
8028	F&I 1" GALVANIZED RISER	LF	20
8035	F&I SCHEDULE 80 RIGID PVC CONDUIT UP TO 4"- TRENCHED	LF	1320
8036	F&I SCHEDULE 80 RIGID PVC CONDUIT UP TO 4"- BORED	LF	1150
8041	F&I NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	LF	1630
8043	F&I METERED SERVICE PEDESTAL EMBEDDED	EA	1
8045	F&I ELECTRICAL CABLE 1-CONDUCTOR NO. 4 AWG-THHN/THWN	LF	770
8047	F&I ELECTRICAL HANDHOLE	EA	8
8054	F&I ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)	LF	170
8056	F&I ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)	LF	1260
8058	F&I ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG) TC	LF	50
8064	INSTALL CONTROLLER AND CABINET - POLE MOUNT	EA	1

EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND RETURNED TO SHA.

NONE

WIRING DIAGRAM



WIRING KEY

A	VIDEO DETECTION CABLE [CONTRACT #AT7835185]	J	1-CONDUCTOR ELECTRICAL CABLE NO.10 AWG - THHN/THWN (2 RUNS) [CONTRACT #AT7165185]
B	5-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG) [CONTRACT #AT7835185]	Z	STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.) [CONTRACT #AT7835185]
C,D, E,F	2-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG) [CONTRACT #AT7835185]	PS	UNDERGROUND POWER SERVICE TO BE INSTALLED BY ALLEGHENY POWER
G	2-CONDUCTOR ELECTRICAL CABLE (NO. 12 AWG)-TYPE TC [CONTRACT #AT7835185]	PD	OVERHEAD PHONE DROP TO BE INSTALLED BY VERIZON
H	1-CONDUCTOR ELECTRICAL CABLE NO.4 AWG - THHN/THWN (2 RUNS) [CONTRACT #AT7835185]	✕	GROUND ROD [CONTRACT #AT7165185]
K,L,M	1-CONDUCTOR ELECTRICAL CABLE NO.4 AWG - TYPE USE (2 RUNS) [CONTRACT #AT7165185]		

CONTRACT #AT7165185 (SIGNING)

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA.

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
9000	12" YELLOW LED SIGNAL HEAD SECTION	EA	4
9547	EXTRUDED ALUMINUM SIGN - SPAN MOUNT CONSISTING OF:	SF	234

TRUCK WARNING SIGN - TYPE IX FLUORESCENT YELLOW
BACKGROUND WITH FOUR YELLOW 12" LED SIGNAL HEADS

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FUNISHED AND/OR INSTALLED BY THE CONTRACTOR.

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
1001	MAINTENANCE OF TRAFFIC PER ASSIGNMENT	EA	2
8002	F&I CONCRETE FOUNDATION - OVERHEAD SIGN STRUCTURES	CY	12.5
8003	TEST PIT EXCAVATION	CY	1
8039	INSTALL EXTRUDED ALUMINUM SIGN	SF	234
8048	F&I SIGN LIGHTING SYSTEM TERMINAL UNITS	EA	1
8050	F&I 4" SCHEDULE 80 RIGID PVC CONDUIT - BORED	LF	40
8051	F&I 4" DIAMETER PVC CONDUIT IN CONCRETE FOUNDATION FOR SIGN STRUCTURE	LF	10
8052	F&I SIGN LIGHTING SYSTEM	LF	20
8067	F&I 250 WATT MERCURY VAPOR SIGN LUMINAIRE FOR SIGN LIGHT SYSTEM	EA	3
8071	F&I CABLE - 1 CONDUCTOR, NO. 4 AWG, TYPE USE, 600V	LF	5830
8073	F&I CABLE - 1 CONDUCTOR, NO. 10 AWG, TYPE THWN/THWN, 600V	LF	120
8074	F&I 1" RIGID STEEL CONDUIT SCH 40 FOR SIGN STRUCTURE	LF	60
8075	F&I 1" DIAMETER FLEXIBLE STEEL CONDUIT	LF	20
8078	F&I CONNECTOR KIT - TYPE II	EA	8
8081	F&I GROUND ROD - 3/4" DIAMETER X 10' LENGTH	EA	1
8082	F&I LIGHTING CONTROL CABINET, POLE MOUNT (120/240 VOLTS, 1 PHASE, 3 WIRE SYSTEM)	EA	1
8100-A	F&I CANTILEVER SIGN STRUCTURE (USED YARD STRUCTURE)	EA	1

EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND RETURNED TO SHA.

NONE

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 135 EB - AUTOMATIC TRUCK
DETECTION WARNING SYSTEM
LUKE, MARYLAND

GENERAL INFORMATION SHEET

SCALE 1" = 20'	DATE JANUARY 2007	CONTRACT NO. AT7165185/AT7835185
DESIGNED BY T. CHOWDHRY	COUNTY GARRETT	
DRAWN BY T. CHOWDHRY	LOGMILE 11013518.90	
CHECKED BY D. EBY	TIMS NO. H567	
FAP NO.	TOD NO.	
TS NO. 4543GI	DRAWING GI-01 OF 1	SHEET NO. 3 OF 3

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& KAHL, LLP
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81 MOSHER STREET
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FILE: K:/projects/104-134/Task63/dgn/H567-g101.dgn